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Digital Image Identification System

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DIGITAL IMAGE IDENTIFICATION SYSTEM

[0001] The present invention relates generally to photography, and more particularly to photographic image identification.

BACKGROUND

[0002] It is well known in the camera industry that businesses often use photography to catalogue merchandise and to verify its condition both before and after transportation. As volumes of images increase, cataloging becomes labor intensive.

[0003] Prior to digital imaging, Polaroid™ style photographs were the optimal medium for recording defects in products. They developed instantly and could be attached to the product paperwork. The product paperwork was then filed, stored and retrieved when necessary. In large volumes, this process tended to become cumbersome.

[0004] Digital imaging shares many of the advantages of Polaroid™ photography. It further offers, however, increased versatility because, for example, it allows copies to be made almost instantly, and it facilitates image postings on the world wide web.

[0005] Digital cameras currently have functions to display the date or image number on an image. The image number, however, starts at one and advances with each successive image until camera storage is exhausted. These displays generally do not provide businesses with sufficient categorization parameters necessary for an efficient cataloging system.

[0006] Another negative aspect of digital cameras is that once a series of digital images has been taken and stored in computer files, the images must then be named and downloaded and placed in their appropriate files. For large volumes of images, this tends to become a laborious process.

[0007] The disadvantages associated with these conventional digital image identification techniques have made it apparent that a new technique for digital image identification is needed. The new technique should have a user interface and should also have a precise system for identifying multiple sets of images. The present invention is directed to these ends.

SUMMARY OF THE INVENTION

[0008] It is an object of the present invention to provide an improved identification system. It is also an object of the present invention to provide an improved digital image identification system.

[0009] In accordance with the present invention, a system for cataloging a digital image created by a digital camera is disclosed. The system includes a character string. The system further includes a character input device subject to receive the character string. A memory file on the digital camera is subject to identification by the character string. The memory file is further subject to electronically store the digital image.

[0010] Additional advantages and features of the present invention will become apparent from the description that follows and may be realized by the instrumentalities and combinations particularly pointed out in the appended

claims, taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] For a more complete understanding of the invention, there will now be described some embodiments thereof, given by way of example, reference being made to the accompanying drawings, in which:

[0012] FIGURE 1 is a perspective view of a digital image identification system in accordance with one embodiment of the present invention;

[0013] FIGURE 2 is a perspective view of a digital image identification system in accordance with another embodiment of the present invention;

[0014] FIGURE 3 is a perspective view of a digital image identification system in accordance with another embodiment of the present invention; and

[0015] FIGURE 4 is a logic flow diagram of a digital image identification system in accordance with one embodiment of the present invention.

DETAILED DESCRIPTION

[0016] The present invention is illustrated with respect to a digital image identification system 10, particularly suited to maintain product quality records. However, the present invention is applicable to various other uses that may require digital image identification systems, as will be understood by one skilled in the art.

[0017] Referring to FIGURE 1, a digital image identification system 10, in accordance with one embodiment of the present invention, is illustrated. The identification system 10 includes a digital camera 12 and a digital camera operator. The identification system 10 further includes a character string, which is input by a digital camera operator into a character input device 14. The preferred steps to input the character string will be discussed later.

[0018] The character string is embodied as a series of letters corresponding to a subset of images dealing with a specific product. The character string is further embodied with a series of numbers corresponding to a set of subsets dealing with a product line. To illustrate, character string 001A has the following features: the "A" portion of the character string references a digital image of an individual product. The subsequent digital image of that product is 001B. The "001" portion references a set of individual products. The first product is identified as "001." The second product is identified as "002."

[0019] For the current embodiment the letter portion of the character string sequences automatically when a series of images are taken. The numeric portion is sequenced by the digital camera operator engaging the switch 16 or typing in the subsequent numerical value on the character input device 14.

[0020] The switch 16, here embodied as a button, supplements the operation of the character input device 14. The switch 16 facilitates rapid creation of multiple sets of images. To illustrate, when a sufficient quantity of digital images are taken of a product, the camera operator engages the switch 16. This indexes the letter portion of

the character string to signify and identify a second product.

[0021] A memory file on the digital camera 12 is subject to identification by the character string. The memory file electronically stores the digital image. The memory file may further store numerous other digital images as required by the digital camera operator. The identification and storage of the digital image will be discussed later.

[0022] In the present embodiment, the character input device 14 is a keypad attached directly to the digital camera 12. Numerous other designs for the character input device 14 and the connection to the digital camera 12 will be discussed later.

[0023] Following the storage of the digital image, the digital image is downloaded to a remote server 18, which is illustrated as a personal computer.

[0024] FIGURES 2 and 3 illustrate alternate embodiments of the present invention. For example, FIGURE 2 the character input device 24 is independent of the digital camera 26. In other words, a data transfer link 28, in the form of a wire, cable or other data transfer apparatus, connects the character input device 24 to the digital camera 26, as will be understood by one skilled in the art. FIGURE 3 illustrates the character input device 34 as a bar code reader connected to the digital camera 36 by a data transfer link 38. This simplifies the input of a character string by a digital camera operator when cataloging inventory labeled with bar codes because the bar codes identify the product with a character string that is easily scanned into the character input device 34.

to those skilled in the art without departing from the scope of the invention as defined by the following claims:

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